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Patent Abstracts of Japan

PUBLICATION NUMBER : 63055864
PUBLICATION DATE : 10-03-88

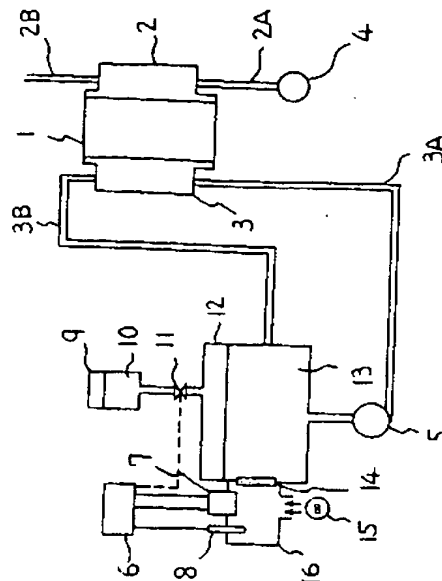
APPLICATION DATE : 27-08-86
APPLICATION NUMBER : 61198858

APPLICANT : HITACHI LTD;

INVENTOR : YASUKAWA SABURO;

INT.CL. : H01M 8/04

TITLE : FUEL DETECTOR OF FUEL CELL



ABSTRACT : PURPOSE: To improve detection precision by providing a diaphragm wall at the liquid phase area of a fuel and anolyte supply system so that fuel vapor which permeates through the diaphragm wall is sent by a blower to a gas detector for detection.

CONSTITUTION: A diaphragm 14 is provided at the wall of an anolyte reservoir 12 in contact with an anolyte 13. The diaphragm 14 is surrounded by a detection box 16, wherein a blower 15 is installed in lower opening thereof and a gas detector 7 and a thermistor 8 used for compensating temperatures detected by the gas detector are installed in upper opening thereof and connected to a detection circuit 6. Fuel vapor which permeates through the diaphragm 14 is sent by the blower 15 to gas detector 7 and detected. Since fuel gas which permeates through the diaphragm 14 is immediately sent to the gas detector 7 by the blower 15, it can be detected with a high precision, coinciding with the fuel concentration in the anolyte 13. Also, because of intervention of the diaphragm 14, no sulfuric acid bleeds and a decline of reliability of the gas detector 7 due to corrosion is avoided.

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